



Sample Application Packet

Request for Preliminary Determination for Bridge Rehabilitation

- 1.) Completed Application Form
- 2.) Site Description (original & revised)
- 3.) Impact Avoidance & Minimization Statement
- 4.) Easement Letter & Authorization
- 5.) Estimated Construction Costs
- 6.) Permit
- 7.) Sample Site Plans (reduced)

The following packet has been designed to help consultants and applicants produce the best possible submissions for the RIDEM Wetlands Program. It is meant to be a good application example, but not the only type of acceptable submission. We have tried to include all elements mandatory to a successful submission, as well as a few other sample items.

Please Note: This sample application packet is for general information purposes only and is not meant to be used as a substitute for the Freshwater Wetlands Act or the *Rules and Regulation Governing the Administration and Enforcement of the Freshwater Wetlands Act*.

**RHODE ISLAND DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES/PERMITTING PROGRAM**

235 Promenade Street, Providence, RI 02908

Telephone: 401-222-6820, Telecommunication Device for the Deaf: 401-222-6800

APPLICATION FORM

Please type or print

AGENCY USE ONLY
Application No.:

PART A

Purpose of Application:

- ☐ Request to Determine Presence of Wetlands only (see Rule 9.02(B))
- ☐ Request to Verify Delineated Edge of Wetlands (see Rule 9.02)
- ☒ Request for Preliminary Determination (see Rule 9.03)
- ☐ Application to Alter a Freshwater Wetland (see Rule 9.05)
- ☐ Application For Renewal (see Rule 9.07)
- ☐ Application for Permit Transfer (see Rule 9.08)
- ☐ Application For Permit Modification (see Rule 9.09)
- ☐ Change in Owner During Application Processing (see Rule 8.06)

AGENCY USE ONLY
Application Received:

PART B

Applicant Information:

- Name of Applicant (see Rules 5.06 and 8.02): Town of Anytown
Note: The applicant must be the owner of the property or easement which is the subject of this application or must be the government agency or entity with power of condemnation over such property or easement.
- Mailing Address of Applicant: 642 North Street

Street/Road

P.O. Box

Anytown
City/Town

RI
State

01234
Zip Code

789-1234
Telephone No.

- Location of Property subject to this Application:
Anytown Brook Street
City/Town Street Abutting Site Street address number (if applicable)
Farnum Rd. 200' ± East of Site
Nearest street intersection and its distance and direction from site
Nearest utility pole number(s): UP #X Direction to site from abutting street: N X S E W
Tax Assessor's Plat(s) and Lot No. (s): NA
Recorded Plat (s) and Lots No. (s) (if no Tax Assessor Plat and Lots available):

PART C

General Information:

- Any previous application for this site? Yes No X Provide Application No. (s)
- Any previous enforcement action for this site? Yes No X Provide File No(s)
- Amount of wetland area to be altered (if applicable, see Rules 8.03, 8.04):
square feet: 400 – River Bank *linear feet (if watercourse):*
- Amount of fee submitted for Application (see Rules 8.03, 8.04): \$ 1,000.00 Check No. 100110

PART D

For Application Renewal Only:

- Name of Original or Subsequent Permittee:
- Application/Permit No. Permit Expiration Date:
- Number of previous renewals issued (if applicable):
- **Statement of Applicant:** I hereby state that I am requesting renewal of the original or subsequently modified permitted project under Application/Permit No. . I fully understand the permit limitations and will comply with any and all conditions of the permit.
- Applicant's name: (*print*) (*signature*)

PART E For Application For Permit Transfer Only:

- Name of Original Permittee: _____
- Application/Permit No. _____ Permit Expiration Date: _____

Note: A certified copy of the deed of transfer must be enclosed with application.

- **Statement of Applicant:** I hereby certify that I have reviewed the permit letter issued under Application/Permit No. _____ and hereby agree to comply with all conditions of the permit, including any time limitations imposed.

- Applicant's name: (*print*) _____ (*signature*) _____ Date: _____
Subscribed and sworn before me this _____ day of _____, 19____.

Notary Public

My Commission expires: _____

PART F For Change in Owner During Application Processing Only:

- Name of Original Applicant: _____ Application No. _____

Note: A certified copy of the deed of transfer must be enclosed for Applications to Alter only.

PART G

Certification of Professional(s) (if applicable): *Note: Any professional (e.g. engineer, biologist, landscape architect, etc.) who participated in the submission and/or preparation of this Application and supporting documentation must sign below.*

- I hereby certify that I have been authorized by the applicant to prepare documentation to be submitted in support of this Application; that such documentation is in accordance with the *Rules and Regulations Governing the Administration and Enforcement of the Freshwater Wetlands Act*; and that such documentation is true, accurate and complete to the best of my knowledge.

- Name of professional (*print*): Sam Jones Title: Professional Engineer
Address: 14 Promenade St., Providence, RI d/b/a: Consultant Engineer, Wetlands Are Us
Signature of professional: Sam Jones Date: 1-17-02

If more than one professional:

- Name of professional (*print*): _____ Title: _____
Address: _____ d/b/a: _____
Signature of professional: _____ Date: _____
- Name of professional (*print*): _____ Title: _____
Address: _____ d/b/a: _____
Signature of professional: _____ Date: _____
- Name of professional (*print*): _____ Title: _____
Address: _____ d/b/a: _____
Signature of professional: _____ Date: _____

PART H Certification of Applicant:

- I hereby certify that I have requested and authorized the investigation, compilation, and submission of all the information, in whatever form, contained in this Application; that I have personally examined and am familiar with the information submitted herein; and that such information is true, accurate and complete to the best of my knowledge.

• **See Rule 8.02 regarding Signatories to Applications**

Signature of Applicant: Jon Allen Title (if applicable): Public Services Director

Print Name Signed Above: Jon Allen Date: 1-17-02

Easement Authorization

GENERAL RIGHT TO DRAIN

KNOW ALL MEN BY THESE PRESENTS that (We), Mary & Bill Nelson of the Town of Anytown, County of Washington, and State of Rhode Island, hereinafter referred to as the Grantor (s) for good and valuable consideration, received to (my) (our) full satisfaction of the Town of Anytown, a municipal corporation having its territorial limits within the County of Washington and the State of Rhode Island, hereinafter referred to as the Grantee, do give, bargain, sell and confirm unto said Town of Anytown, its successors and assigns forever, a General Right to Drain Easement to drain surface runoff water from Brook Street and surrounding area, over a certain piece and parcel of land situated in the Town of Anytown, County of Washington and State of Rhode Island, which is more particularly described as Assessor's Map xx-x, Lot xxx as shown on the tax assessor's map and as described in the Town Clerk's records, L.E. Book xxx, Page xxxx.

The Grantee will maintain in perpetuity said storm drainage easement in good operating condition utilizing best management practices to control stormwater runoff.

Bill Nelson

Grantor – Bill Nelson

Mary Nelson

Grantor – Mary Nelson

In Anytown, RI, on the 13 day of November,

2001 before me personally appeared Bill & Mary Nelson, to

me known and known by me to be the parties executing the foregoing instrument, by us

executed, to be our free act and deed.

Kathy Jones

Notary Public

My Commission Expires 1/17/03

Estimated Construction Costs

Wetlands Are Us

Consulting Engineers

PO Box 123
Anytown, RI 12345
401-123-4567

Project: Brook Street Rehabilitation
Anytown, Rhode Island

Page 1 of 1

11-19-2001

Computations By: Harry Jones

Item Description	Unit	Quantity	Engineer's Estimate	
			Unit Cost	Total
Remove & Dispose Existing Sidewalk	S.Y.	360	8.00	\$2,880.00
Remove & Dispose Existing Curb	L.F.	370	5.00	\$1,850.00
Remove & Dispose Existing Drainage Pipe	L.F.	40	15.00	\$600.00
Remove & Dispose Existing Drainage Structure	E.A.	1	250.00	\$250.00
Remove & Dispose Existing Pavement	S.Y.	755	5.00	\$3,775.00
Reconstruct Existing Drainage Structure	E.A.	1	750.00	\$750.00
Remove & Stockpile Existing Granite Slab	L.F.	88	30.00	\$2,640.00
Point Existing Stone Pier & Abutment Wall	L.F.	100	100.00	\$10,000.00
River Bottom Lining	S.Y.	64	25.00	\$1,600.00
Earth Excavation	C.Y.	165	15.00	\$2,475.00
Compacted Gravel	C.Y.	100	20.00	\$2,000.00
New Granite Curb	L.F.	450	30.00	\$13,500.00
Cement Concrete Sidewalk (Roadway)	C.Y.	52	250.00	\$13,000.00
Reinforced Concrete Bridge Decking & Sidewalk	C.Y.	42	850.00	\$35,700.00
Furnish & Install Catch Basin	E.A.	2	1,200.00	\$2,400.00
Concrete Headwall Outfall	E.A.	1	1,000.00	\$1,000.00
12" Reinforced Concrete Pipe	L.F.	90	50.00	\$4,500.00
Bituminous Pavement Type I-1	T.N.	175	40.00	\$7,000.00
Maintenance & Protection of Traffic	L.S.	1	6,000.00	\$6,000.00
Haybales & Silt Fence	L.F.	200	10.00	\$2,000.00
			Subtotal	\$113,920.00
			10% contingencies	\$11,392.00
			Total	\$125,312.00

Site Description – Original

Wetlands Are Us

PO Box 123
Anytown, RI 12345
401-123-4567

November 19, 2001

Mr. Martin Wencek, Permitting Supervisor
RIDEM – Office of Water Resources/Permitting Section
235 Promenade Street
Providence, RI 02908

Re: Brook Street Bridge Rehabilitation,
Anytown, Rhode Island
Application No. 01-xxxx

Dear Mr. Wencek:

Enclosed please find materials submitted in connection with a Preliminary Determination Application for the above referenced project on behalf of the Town of Anytown.

This project consists primarily of the rehabilitation of the bridge existing superstructure on Brook Street over the Swirling Brook in the Town of Anytown. Bridge rehabilitation will include the removal of the bridge granite decking including roadway components such as pavement structure, curbing, sidewalk, and replacing the granite decking with a 12" reinforced concrete slab, new pavement structure, curbing and sidewalk. All rehabilitation work will take place above the 100-year storm flood elevation (no change in grade is proposed below elevation 17.30). Existing drainage structures and outfalls will be replaced in kind with the same size discharge pipe. New catch basins will have 3.0' sumps for sediment collection versus the old drainage drop inlets. The existing bridge will be completely closed during construction and traffic will be detoured to an alternate route.

This submission consists of the following:

- One (1) Application for Preliminary Determination
- Four (4) full sets of the site plans
- Four (4) copies of the impact avoidance and minimization statement
- A fee in the amount of \$1,000.00 (Estimated Construction Cost = \$125,000+/- see enclosed)

We look forward to your favorable review and kindly request that you call this office with any questions or concerns you may have.

Very truly yours,

Harry Jones

Harry Jones
Senior Engineer

cc: Jon Allen, Anytown Public Services Director
George Smith, Town Engineer

Site Description – Revised

Wetlands Are Us

PO Box 123
Anytown, RI 12345
401-123-4567

December 20, 2001

Mr. Martin Wencek, Permitting Supervisor
RIDEM – Office of Water Resources/Permitting Section
235 Promenade Street
Providence, RI 02908

Re: Brook Street Bridge Rehabilitation
Anytown, Rhode Island
Application No. 01-xxxx

Dear Mr. Wencek:

Enclosed please find four sets of the revised construction plans and a copy of the drainage easement for the proposed outfalls on the northwest side of the existing bridge as requested in your review letter dated December 12, 2001 (copy attached).

Proposed bridge superstructure rehabilitation will include the removal of the existing pavement structure and fill over existing granite slab, curbing, and sidewalk. All rehabilitation work will take place above the 100-year storm flood elevation (no change in grades is proposed to existing bridge profile).

Existing drainage structures and outfalls will be replaced in kind (no new discharges are proposed). Direct outfalls to the River via existing openings on the bridge will be eliminated and replaced with a closed drainage system with catch basins and sumps (for sedimentation control) and rip-rapped outfall for erosion control. The existing bridge will be completely closed during construction and traffic will be detoured to an alternate route.

We look forward to your favorable review and kindly request that you call this office with any questions or concerns you may have.

Very truly yours,

Harry Jones

Harry Jones
Senior Engineer

cc: Jon Allen, Anytown Public Services Director
George Smith, Town Engineer

Impact Avoidance & Minimization Statement

IMPACT AVOIDANCE

1. Description of the primary purpose of the proposed project.

The primary purpose of the proposed activities is to rehabilitate the existing superstructure of the Brook Street Bridge over Swirling Brook in the Town of Anytown.

2. Whether the primary proposed activity is water dependent.

This project is not water-dependent.

3. Whether there are any areas within the same property or other property owned or controlled by the applicant that could be used to achieve the same project purpose without altering the natural character of any freshwater wetlands.

No, the entire existing bridge structure falls within the 200' riverbank wetland associated with the Swirling Brook.

4. Whether there are any other properties not owned or controlled by the applicant but which are reasonably available to the applicant that would not require wetland alterations.

Not applicable for rehabilitation of an existing bridge structure.

5. Whether there are alternative designs, layouts, or technologies that could be used to avoid freshwater wetlands or impacts on wetland functions and values on the subject property or reasonably available properties which would achieve the same project purpose, and whether these design alternatives are feasible.

No, the existing bridge structure is dilapidated and in need of immediate repairs to accommodate vehicular traffic over the Swirling Brook.

6. Description of all attempts applicant has made to overcome or remove constraints such as zoning, infrastructure, parcel size or other similar constraints in order to avoid wetland alterations.

Not applicable, zoning, infrastructure and parcel size do not play a roll in the rehabilitation of an existing bridge structure.

7. Whether the available alternatives which would not alter the natural character of any freshwater wetlands on the subject property or reasonably available properties, if incorporated in the proposed project, would result in significant adverse consequences to the public health and safety, and/or the environment.

Not applicable for the rehabilitation of an existing bridge structure.

IMPACT MINIMIZATION

1. Whether the proposed project is necessary at the proposed scale and whether the scale of alteration could be reduced and still achieve the same primary purpose.

Proposed alterations are necessary at the existing scale. Further reduction in proposed rehabilitation will not achieve the primary purpose, which is public safety.

2. Whether the proposed project is necessary at the proposed location or whether another location within the site could achieve the same primary project purpose while resulting in less impact to the wetland.

Proposed alterations are necessary at existing bridge location. Further reduction in proposed rehabilitation will not achieve the primary purpose, which is public safety.

3. Whether there are alternative designs, layouts, densities, or technologies that are feasible, and result in less impact to the wetland while still achieving the same project purpose.

All efforts have been made to reduce the impact to the adjacent wetlands during rehabilitation; layout densities, or technologies do not play a roll in the rehabilitation of an extension bridge structure.

4. Whether reduction in the scale of the proposed project or relocation to minimize impact to the wetland would result in significant adverse consequences to the public health and safety and/or the environment.

Any further reduction in bridge rehabilitation will jeopardize public safety.

Easement Letter



Town of Anytown

642 North Street
Anytown, Rhode Island 01234

Tel: (401) 789-1234

November 14, 2001

Mr. Sam Jones, P.E.
President
Wetlands Are Us
P.O. Box 123
Anytown, RI 12345

Dear Mr. Jones:

Attached for your information is an agreement entered into between the Town and Mr. & Mrs. Nelson for the general right to drain onto their property. This agreement satisfies the need for a formal agreement allowing storm water drainage to pass from Brook Street into Mr. & Mrs. Nelson's property. Also attached are the project plans showing existing and proposed drainage.

Please file this in your project file for future information.

Sincerely,

George Smith

George Smith
Town Engineer
Town of Anytown



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

Permit

January 17, 2002

Jon Allen, Public Services Director
Town of Anytown
642 North Street
Anytown, RI 01234

Insignificant Alteration – Permit

RE: Application No. 01-xxxx in reference to the property and proposed project located:

On Brook Street by Utility Pole No. x, approximately 250 feet west of the intersection of Brook Street and Farnam Rd., Anytown, R.I.

Dear Mr. Allen:

Kindly be advised that the Department of Environmental Management's ("DEM") Freshwater Wetlands Program ("Program") has completed its review of your **Request for Preliminary Determination** application. This review included a site inspection of the above referenced property ("subject property") and an evaluation of the proposed reconstruction of the Brook Street Bridge as illustrated and detailed on site plans submitted with your application. These site plans were received on December 20, 2001.

Our observations of the subject property, review of the site plans and evaluation of the proposed project reveals that alterations of freshwater wetlands are proposed. However, pursuant to Rule 9.03 of the Rules and Regulations Governing the Administration and Enforcement of the Fresh Water Wetlands Act (Rules), this project may be permitted as an **insignificant alteration** to freshwater wetlands under the following terms and conditions:

Terms and Conditions for Application No. 01-xxxx:

1. This letter is the DEM's permit for this project under the R.I. Fresh Water Wetlands Act, Rhode Island General Laws (RIGL) Section 2-1-18 et seq.
2. This permit is specifically limited to the project, site alterations and limits of disturbance as detailed on the site plans submitted with your application and received by the DEM on December 20, 2001. A copy of the site plans stamped approved by the DEM is enclosed. Changes or revisions to the project which would alter freshwater wetlands are not authorized without a permit from the DEM.

1. Where the terms and conditions of the permit conflict with the approved site plans, these terms and conditions shall be deemed to supersede the site plans.
2. You must notify this Program in writing immediately prior to the commencement of site alterations and upon completion of the project.
4. A copy of the stamped approved site plans and a copy of this permit must be kept at the site at all times during site preparation, construction, and final stabilization. Copies of this permit and the stamped approved plans must be made available for review by any DEM representative upon request.
5. The effective date of this permit is the date this letter was issued. This permit expires four (4) years from the date of issue.
6. Any material utilized in this project must be clean and free of matter which could pollute any freshwater wetland.
7. Prior to commencement of site alterations, you shall erect or post a sign resistant to the weather and at least twelve (12) inches wide and eighteen (18) inches long, which boldly identifies the initials "DEM" and the application number of this permit. This sign must be maintained at the site in a conspicuous location until such time that the project is complete.
8. Temporary erosion and sediment controls detailed or described on the approved site plans shall be properly installed at the site prior to or commensurate with site alterations. Such controls shall be properly maintained, replaced, supplemented, or modified as necessary throughout the life of this project to minimize soil erosion and to prevent sediment from being deposited in any wetlands not subject to disturbance under this permit.
9. Upon permanent stabilization of all disturbed soils, temporary erosion and/or sediment controls consisting of hay bales or silt fence must be removed.
10. You are responsible for the proper operation, maintenance and stability of any mitigating features, facilities, and systems of treatment and control which are installed or used in compliance with this permit to prevent harm to adjacent wetlands.
11. You are obligated to install, utilize and follow all best management practices detailed or described on the approved site plans in the construction of the project to minimize or prevent adverse impacts to any adjacent freshwater wetlands and the functions and values provided by such wetlands.
12. All construction activities involving soil disturbances within watercourses must be limited to the low flow period (i.e., the period from July 1 to October 31 of any calendar year). Soil disturbance in these watercourses must temporarily cease in the event of any abnormally high stormwater runoff event during the low flow period.

13. You must provide written certification from a registered land surveyor or registered professional engineer that the stormwater drainage system including any and all basins, piping systems, catch basins, culverts, swales and any other stormwater management control features have been constructed/installed in accordance with the site plans approved by this permit. This written certification shall also ensure that the stream bottom elevation within the area of authorized work associated with rip-rap installation is the same upon completion of the project as it was prior to commencement of the project. This written certification must be submitted to this Program within twenty (20) days of its request or upon completion of the project.

This permit is valid for the original applicant only and is not transferable to another person unless the new owner completes and submits an **Application for Permit Transfer** in accordance with Rule 9.08.

You are required to comply with the terms and conditions of this permit and to carry out this project in compliance with the Rules at all times. Failure to do so may result in an enforcement action by this Department.

In permitting the proposed alterations, the DEM assumes no responsibility for damages resulting from faulty design or construction.

Kindly be advised that this Permit is not equivalent to a verification of the types and extent of freshwater wetlands on site. Should you wish to have the types and extent of freshwater wetlands verified, you may submit the appropriate application in accordance with Rule 9.02.

This permit does not remove your obligation to obtain any local, state, or federal approvals or permits required by ordinance or law and does not relieve you from any duties owed to adjacent landowners with specific reference to any changes in drainage.

Please contact Jack Jones of this office (telephone: 401-222-4700) should you have any questions regarding this letter.

Sincerely,

Martin Wencek

Martin D. Wencek, Permitting Supervisor
Wetland Program
Office of Water Resources

MDW/JC:cam

Enclosure: Approved site plans

xc: George Smith, Anytown, Town Engineer
 Sam Jones, Wetlands Are US

BROOK STREET BRIDGE

REHABILITATION

ANYTOWN, RHODE ISLAND

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PREPARED FOR:
TOWN OF ANYTOWN
DEPARTMENT OF
PUBLIC SERVICES
642 NORTH STREET
ANYTOWN, RI 01234

TITLE BLOCK



N ↑ LOCATION MAP

GENERAL NOTES

1. EMBANKMENT SLOPES AND ALL DISTURBED AREAS ARE TO RECEIVE 4" TOPSOIL AND SEED.
2. FOR ALL EXCAVATION AND PLACEMENT OF FILL, THE CONTRACTOR SHALL PERFORM THE WORK IN FULL COMPLIANCE WITH THE RI STANDARD SPECIFICATION SECTION 202.
3. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING DRAINAGE & UTILITIES, BOTH UNDERGROUND AND OVERHEAD, BEFORE EXCAVATION BEGINS IN ACCORDANCE WITH “DIG SAFE PROGRAM LAW” ENACTED BY THE RI LEGISLATURE AND BY CONTACTING THE INDIVIDUAL UTILITY COMPANIES. EXCAVATION SHALL BE IN ACCORDANCE WITH ALL STATUTES, ORDINANCES, RULES AND REGULATIONS OF ANY CITY, STATE OR FEDERAL AGENCY THAT MAY BE APPLICABLE. ANY DAMAGE TO EXISITNG UTILITIES SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. SPECIFICATIONS TO GOVERN THIS PROJECT ARE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION TO DATE. STANDARD DETAILS FOR THIS PROJECT ARE RHODE ISLAND STANDARD DETAILS.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MAINTENANCE AND PROTECTION OF PEDESTRIAN AND VEHICULAR TRAFFIC INCLUDING POLICE PROTECTION. ALL TEMPORARY CONSTRUCTION SIGNS, BARRICADES AND LANE CLOSURES SHALL BE IN CONFORMANCE WITH THE M.U.T.C.D.
6. ALL REQUIRED AUTHORIZATION TO PERFORM WORK MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
7. ALL EXISTING UTILITIES HAVE BEEN PLOTTED BASED UPON BEST AVAILABLE INFORMATION AND REPRESENT APPROXIMATE LOCATIONS.
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ANY CONSTRUCTION OPERATIONS INCLUDING ALL ACTIONS OR OMISSIONS OF ANY SUBCONTRACTORS, AGENTS OR EMPLOYEES. THE CONTRACTOR MUST ENSURE THAT THE CONDITIONS OF ALL PERMITS, SPECIFICATIONS AND FEDERAL, STATE, AND LOCAL REGULATIONS ARE STRICLY ENFORCED. THE CONTRACTOR IS ALSO RESPONSIBLE FOR ALL ASPECTS OF ON-SITE SAFETY INCLUDING ANY DAMAGE TO EXISTING STRUCTURES.
9. ALL DISTURBED AREAS SHALL BE REPLACED IN KIND UNLESS OTHERWISE SHOWN.
10. WORK SHOWN ON THE PLANS FOR WHICH THERE ARE NO PARTICULAR DETAILS OR SPECIFICATIONS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING THE WORK. THE CONTRATOR SHALL THOROUGHLY EXAMINE THE CONTRACT DOCUMENTS AND PLANS AND INSPECT THE SITE, AND THE BID PRICE SHALL INCLUDE ALL SERVICES AND MATERIALS NECESSARY TO COMPLETE THE PROJECT. ANY CHANGES TO THE PROJECT OR THE INSTALLATION OF AN ITEM FOR WHICH NO PARTICULAR DETAIL OR SPECIFICATION WAS PROVIDED MUST BE REVIEWED BY AND MUST BE ACCEPTABLE TO THE ENGINEER.
11. ALL ELEVATIONS ARE BASED ON THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (M.S.L. + 0.00).

EROSION CONTROL AND SOIL STABILIZATION PROGRAM

1. EXTREME CARE SHALL BE EXERCISED SO AS TO PREVENT ANY UNSUITABLE MATERIAL FROM ENTERING WETLANDS, THE ROADWAY DRAINAGE SYSTEM AND ADJACENT PROPERTY.
2. STAKED HAY BALES OR SILT FENCES SHALL BE INSTALLED WHERE SHOWN AND AS REQUIRED TO PREVENT SEDIMENTATION ONTO ADJACENT PROPERTIES.
3. DENUDED SLOPES SHALL NOT BE UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
4. ALL DISTURBED SLOPES, EITHER NEWLY CREATED OR EXPOSED PRIOR TO OCTOBER 15, SHALL BE SEEDED OR PROTECTED BY THAT DATE.
5. TEMPORARY TREATMENTS SHALL CONSIST OF HAY, STRAW OR FIBER MULCH OR PROTECTIVE COVERS, SUCH AS A MAT OR FIBER LINING (BURLAP, JUTE, FIBERGLASS NETTING, AND EXCELSIOR BLANKETS). THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE OWNER.
6. HAY OR STRAW APPLICATIONS SHALL BE IN THE AMOUNT OF 3,000 – 4,000 LBS/ACRE.
7. ALL HA Y BALES OR TEMPORARY PROTECTION SHALL REMAIN IN PLACE UNTIL AN ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED AND POTENTIAL SEDIMENTATION SOURCES ARE REMOVED.
8. STOCKPILES SHALL HAVE NO SLOPE STEEPER THAN 2:1 AND SHALL BE SURROUNDED BY STAKED HAY BALES.
9. STOCKPILES EXPOSED FOR EXCESSIVE PERIODS SHALL RECEIVE TEMPORARY TREATMENT CONSISTING OF HAY, STRAW OR FIBER MATTING.
10. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EROSION CONTROL MAINTENANCE AND SHALL INSPECT/REPLACE AS NEEDED.
11. ADDITIONAL HAY BALES OR SANDBAGS SHALL BE LOCATED AS CONDITIONS WARRANT OR AS DIRECTED BY THE ENGINEER, OWNER, TOWN REPRESENTATIVES OR R.I.D.E.M.
12. THE CONTRACTOR SHALL REFERENCE THE “RI EROSION AND SEDIMENT CONTROL HANDBOOK” PREPARED BY THE US DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, 1989, AS A GUIDE.

DRAINAGE & MAINTENANCE SCHEDULE

- CATCH BASINS
- INSPECT AT 6-MONTH INTERVALS
- CLEAN AT 12-MONTH INTERVALS. REMOVE ALL SAND, SILT AND DEDRIS FROM SUMPS.

- MANHOLES
- INSPECT AT 6-MONTH INTERVALS.
- CLEAN AS REQUIRED.

SUGGESTED SEQUENCE OF CONSTRUCTION

1. INSTALL TRAFFIC CONTROL DEVICES AND DETOUR TRAFFIC IN ACCORDANCE WITH THE APPROVED TRAFFIC PLAN.
2. INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS.
3. REMOVE AND DISPOSE BRIDGE SUPERSTRUCTURE FILL & ASSOCIATED ROADWAY COMPONENTS AS SHOWN ON DETAILS.
4. LINE BOTTOM OF RIVER CHANNEL UNDERNEATH EXISTING BRIDGE WITH RIPRAP. REFER TO DETAILS AND SEQUENCE OF CONSTRUCTION AS SHOWN IN BRIDGE DETAILS.
5. CAST IN PLACE NEW REINFORCED CONCRETE DECKING, CONSTRUCT ROADWAY PAVEMENT STRUCTURE, SIDEWALKS AND ASSOCIATED COMPONENTS.

FLOOD ZONE NOTE

1. 100 YEAR FLOOD BOUNDARIES WERE TAKEN FROM THE TOWN OF ANYTOWN FLOOD INSURANCE RATE MAPS, ISSUED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, COMMUNITY PANEL NUMBER XXX, REVISED JANUARY 3, 1986.
2. 100 YEAR FLOOD ELEVATION = 17.30 ±.
3. PROPOSED BRIDGE REHABILITATION WILL TAKE PLACE ABOVE THE 100 YEAR FLOOD ELEVATION. NO GRADE CHANGE OR FILL IS PROPOSED BELOW ELEVATION = 17.30 ±.

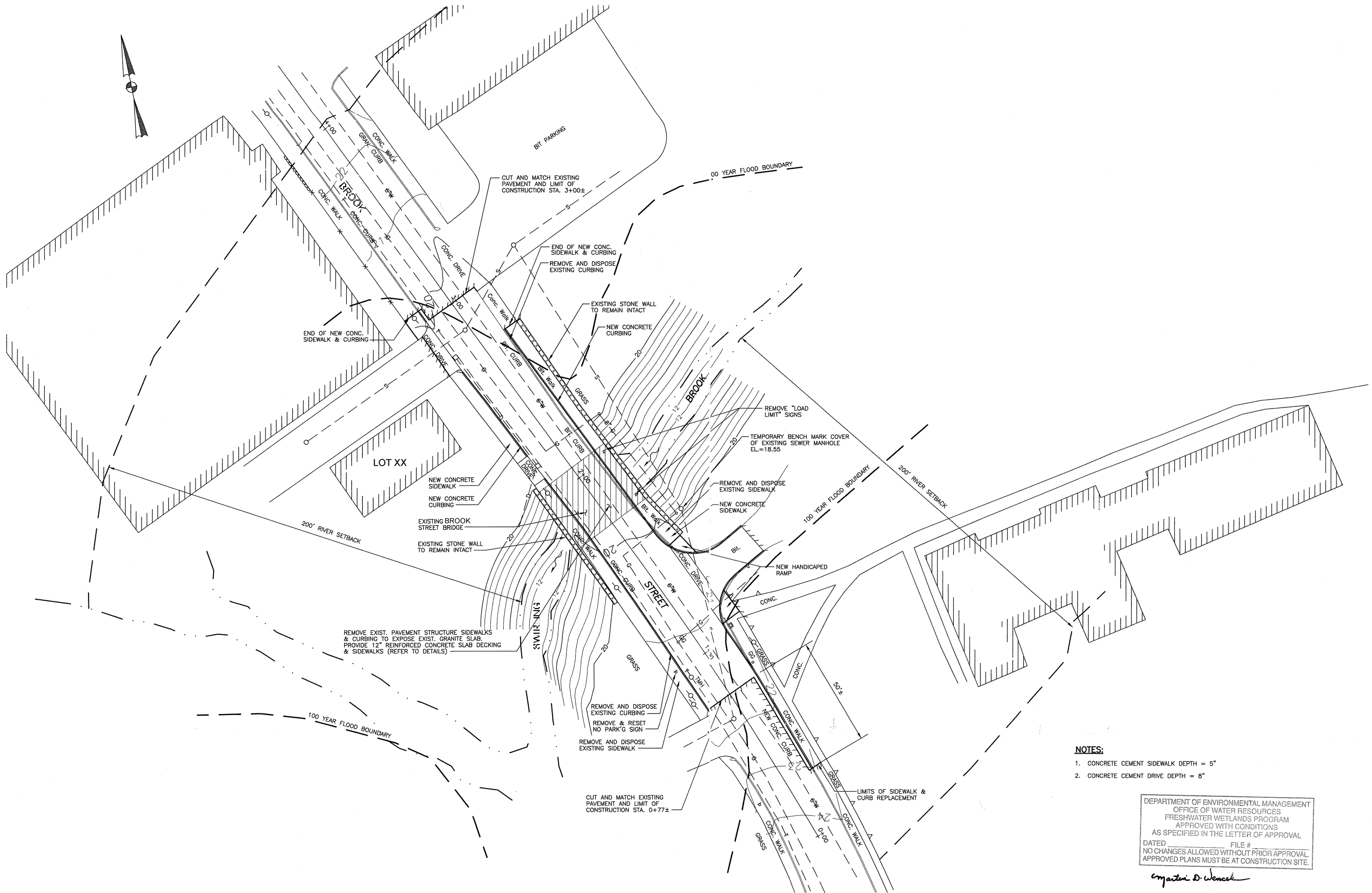
RIDEM PERMIT

ALL WORK SHALL BE IN FULL CONFORMITY WITH THE PERMIT ISSUED BY RIDEM FOR THE PROJECT.

LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	EXIST. CONTOUR		EXIST. DRAIN MANHOLE
	PROP. CONTOUR		PROP. CATCH BASIN
	PROPERTY LINE		EXIST. SEWER MANHOLE
	EDGE OF TREES		EXIST. UTILITY POLE
	EXIST. DRAIN		REINFORCED CONCRETE PIPE
	PROP. DRAIN		CAST IRON
	EXIST. SEWER		LINE OF BALED HAY & LIMIT OF DISTURBANCE
	PROP. SEWER		FLAGGED WETLAND EDGE
	EXIST. WATER LINE		RIDEM 50' PERIMETER WETLAND BUFFER
	PROP. WATER LINE		RIDEM 100' RIVERBANK WETLAND BUFFER
	GATE VALVE OR CURB STOP		LIMIT OF SLOPE EASEMENT
	PROP. HYDRANT		LIGHT POLE (20' UNLESS OTHERWISE NOTED)
	SILT FENCE		LIGHT BOLLARD (30")
	HANDICAP RAMP		AREA OF SWAMP
	RETAINING WALL		SHRUBS
	CUT & MATCH PAVEMENT		

PROJECT TITLE			PREPARED FOR:			SHEET DESCRIPTION			NO. DATE BY		
BROOK STREET BRIDGE REHABILITATION			TOWN OF ANYTOWN DEPARTMENT OF PUBLIC SERVICES 642 NORTH STREET ANYTOWN, RI 01234			GENERAL PLAN			PROJECT NO. _____ DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____ DATE _____ SCALE 1"=20'		
ANYTOWN RHODE ISLAND			TITLE BLOCK			CERTIFIED PROFESSIONAL STAMP			REVISIONS		
									2		
									SHEET 2 OF 11		



NOTES:

- 1. CONCRETE CEMENT SIDEWALK DEPTH = 5"
- 2. CONCRETE CEMENT DRIVE DEPTH = 8"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED _____ FILE # _____
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

Matthew D. Wencsek

NO.	DATE	BY
REVISIONS		

3

SHEET 3 OF 11

PROJECT TITLE
**BROOK STREET
BRIDGE REHABILITATION**
ANYTOWN RHODE ISLAND

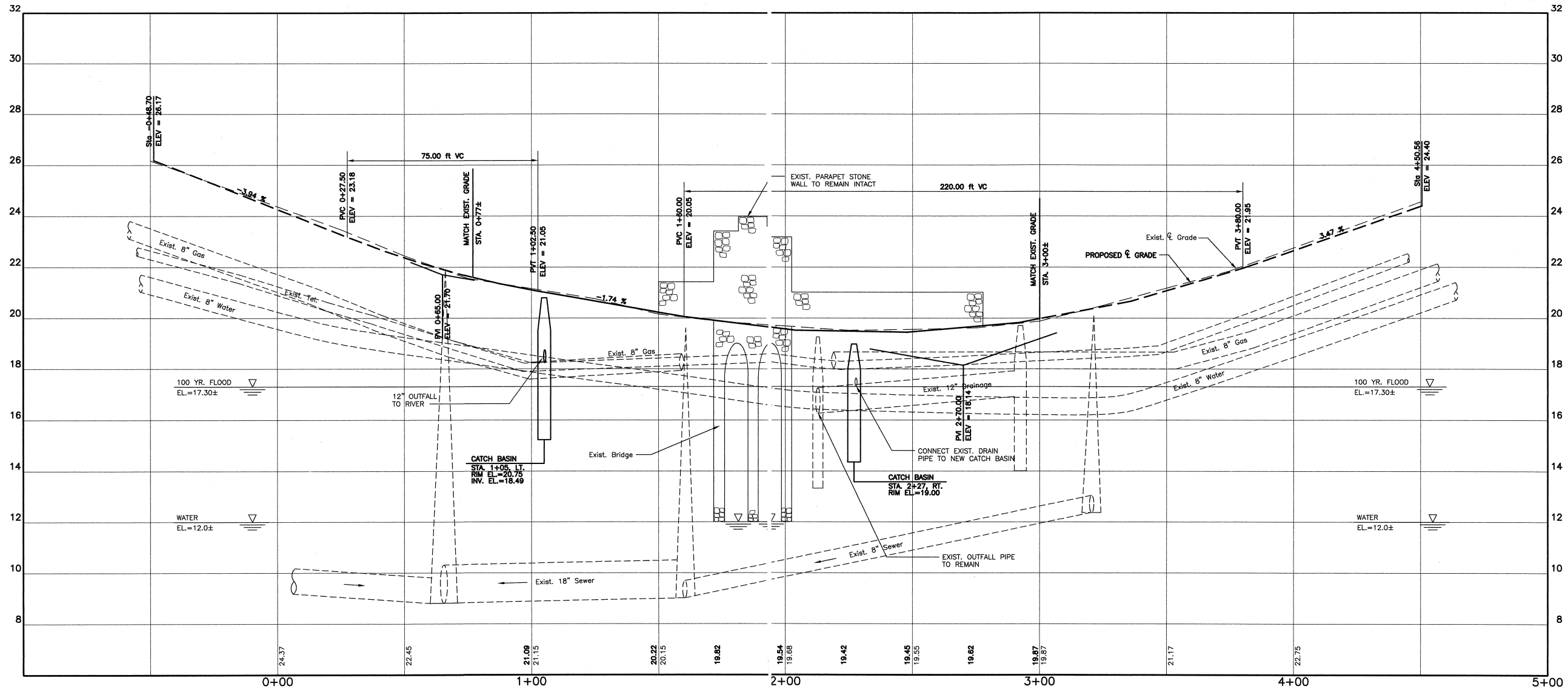
TITLE BLOCK

CERTIFIED
PROFESSIONAL
STAMP

PREPARED FOR:
**TOWN OF ANYTOWN
DEPARTMENT OF PUBLIC SERVICES
642 NORTH STREET
ANYTOWN, RI 01234**

SHEET DESCRIPTION
GENERAL PLAN

PROJECT NO. _____
DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
DATE _____
SCALE 1"=20'



PROFILE
SCALE: HORIZ. 1"=20'
VERT. 1"=2'

NOTE:
VERTICAL CURVE DATA BEFORE STA. 0+77± AND PAST
STA. 3+00± ARE FOR INFORMATIONAL PURPOSES ONLY.
PROPOSED CHANGE IN ROADWAY CENTERLINE PROFILE
ARE ONLY BETWEEN STA. 0+77± AND STA. 3+00±.
EXISTING GRADES SHALL BE MATCHED AT STA. 0+77±
AND STA. 3+00±.

Kindly be advised that this
Permit is not equivalent to a
verification of the type or extent
of freshwater wetlands on site.

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Martin D. Wencel

NO.	DATE	BY
REVISIONS		

PROJECT TITLE BROOK STREET BRIDGE REHABILITATION ANYTOWN RHODE ISLAND		TITLE BLOCK	CERTIFIED PROFESSIONAL STAMP	PREPARED FOR: TOWN OF ANYTOWN DEPARTMENT OF PUBLIC SERVICES 642 NORTH STREET ANYTOWN, RI 01234	SHEET DESCRIPTION PROFILE	PROJECT NO. _____ DESIGNED BY _____ DRAWN BY _____ CHECKED BY _____ DATE _____ SCALE _____	5 SHEET 5 OF 11
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LONGITUDINAL DEMOLITION SECTION C-C

PROPOSED TRANSVERSE BRIDGE SECTION A-A

PROPOSED SIDEWALK AND SLAB, SECTION B-B

* EXISTING UTILITIES TO REMAIN, CONTRACTOR SHALL CONTACT APPROPRIATE UTILITY COMPANY (BOTH UNDER GROUND AND OVER HEAD) TO COORDINATE METHOD AND SHORING REQUIREMENTS TO MAINTAIN EXISTING UTILITIES IN WORKING CONDITIONS DURING CONSTRUCTION.

TRANSVERSE SECTION A-A

LONGITUDINAL PROPOSED SECTION E-E

STREAM DIVERSION PLAN

CONCRETE

1. CONCRETE SHALL BE CLASS XX(AE) 3/4" BRIDGE DECKS AND SIDEWALKS, AS DESCRIBED IN TABLE (1)(a)(2) UNDER SECTION 600 "PORTLAND CEMENT CONCRETE" OF THE RHODE ISLAND STANDARD SPECIFICATIONS FOR ROADS AND BRIDGE CONSTRUCTION.
2. ALL CONCRETE SHALL BE AIR-ENTRAINED. (MIN 5%)
3. CONCRETE SHALL BE CURED FOR A MINIMUM OF SEVEN DAYS BEFORE ANY LOADS ARE APPLIED THERETO.
4. CONSTRUCTION JOINTS SHALL BE PLACED AS SHOWN ON THE DRAWINGS.
5. CONCRETE SHALL BE PLACED SO THAT SLAB THICKNESS IS AT NO POINT LESS THAN THAT INDICATED ON DRAWINGS. THIS REQUIRES THAT STRUCTURAL SLABS NOT BE CAST DEAD LEVEL WHEN SUPPORTING MEMBERS HAVE ANY UPWARD CHAMFER.
6. ALL EXPOSED CONCRETE EDGES SHALL HAVE A 3/4" CHAMFER TYPICALLY, UNLESS NOTED OTHERWISE.
7. ELASTOMERIC SEALANT SHALL BE 'SIKA FLEX 1A' AS MANUFACTURED BY SIKA CORP. OR ENGINEER APPROVED EQUIVALENT.
8. ALL CONCRETE SHALL BE PLACED IN THE DRY.
9. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CONCRETE TESTING BY AN APPROVED TESTING AGENCY FOR ALL CONCRETE PLACED ON THE PROJECT. SAMPLES FOR STRENGTH TESTS OF EACH CLASS OF CONCRETE PLACED EACH DAY SHALL BE TAKEN NOT LESS THAN ONCE A DAY, NOR LESS THAN ONCE FOR EACH 150 CUBIC YARDS OF CONCRETE, NOR LESS THAN ONCE FOR EACH 5,000 SQ. FT. OF SURFACE AREA FOR SLABS AND WALLS. SAMPLES FOR STRENGTH TESTS SHALL BE TAKEN IN ACCORDANCE WITH ASTM C172. COPIES OF ALL TEST RESULTS SHALL BE FORWARDED TO THE ARCHITECT/ENGINEER BY THE G.C.
10. CONCRETE (OTHER THAN HIGH-EARLY-STRENGTH) SHALL BE MAINTAINED ABOVE 50 DEGREES F- AND IN A MOIST CONDITION FOR AT LEAST THE FIRST SEVEN DAYS AFTER PLACEMENT, EXCEPT WHEN CURING IS TO BE ACCELERATED IN ACCORDANCE WITH ACI 318.
11. DURING COLD WEATHER CONDITIONS ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING FREEZING OR NEAR FREEZING WEATHER.
12. DURING HOT WEATHER CONDITIONS, ATTENTION SHALL BE GIVEN TO INGREDIENTS, PRODUCTION METHODS, HANDLING, PLACING, PROTECTION, AND CURING TO PREVENT EXCESSIVE CONCRETE TEMPERATURES OR WATER EVAPORATION THAT WOULD IMPAIR REQUIRED STRENGTH OR SERVICEABILITY OF THE STRUCTURE.
13. CONCRETE SHALL BE PLACED W/O HORIZONTAL CONSTRUCTION JOINTS EXCEPT WHERE SHOWN OR NOTED. VERTICAL CONSTRUCTION JOINTS SHALL STOP AT ALL CONCRETE WORK SHALL BE MADE AT MIDSPAN OR AT POINTS OF MINIMUM SHEAR.
14. CONCRETE SHALL HAVE DCI (CALCIUM NITRATE) FOR CORROSION CONTROL, AT THE RATE OF 4 GAL/CY.

TYPICAL DOWELS DETAIL AT
PIER/ABUTMENT

SCALE: $1/2" = 1'-0"$

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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PROPOSED SIDEWALK AND SLAB, SECTION D-D

SCALE: 1/2" = 1'-0" (WEST SIDE)

SEQUENCE OF CONSTRUCTION

1. PLACE SAND BAGS WITH SILT FENCE AT NORTHERN RIVER SECTION (BOTH INLET AND OUTLET) TO DIRECT STREAM TO SOUTHERN RIVER SECTION.
2. REMOVE 12" OF SEDIMENT AND PLACE RIPRAP ALONG BOTTOM OF NORTHERN RIVER SECTION.
3. REMOVE SAND BAGS WITH SILT FENCE FROM NORTHERN RIVER SECTION AND PLACE ALONG SOUTHERN RIVER SECTION (BOTH INLET & OUTLET)
4. REMOVE 18" OF SEDIMENT AND PLACE RIPRAP ALONG BOTTOM OF SOUTHERN RIVER SECTION. (SOUTH CHANNEL TO BE SET 6"± LOWER THAN NORTH CHANNEL).
5. REMOVE SAND BAGS AND RESTORE ALL DISTURBED CHANNEL BOTTOM TO ORIGINAL CONDITIONS.

RIPRAP

1. R-6 RIPRAP AVERAGE SIZE = 13"

REINFORCING STEEL

1. ALL REINFORCING STEEL SHALL BE EPOXY COATED GRADE 60 NEW BILLET STEEL, CONFORMING TO ASTM A615. WELDED WIRE FABRIC SHALL BE ASTM A185.
2. DETAILING, FABRICATION AND PLACEMENT OF REINFORCEMENT SHALL CONFORM TO LATEST EDITION OF "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318) AND "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI 315).
3. MIN. LAP OF REINFORCING BARS SHALL BE 40 BAR DIAM., U.N.O.
4. INSTALLATION OF REINFORCEMENT SHALL BE COMPLETED AT LEAST 24 HOURS PRIOR TO SCHEDULED CONCRETE PLACEMENT, UNLESS OTHERWISE APPROVED BY ENGINEER.
5. MINIMUM CONCRETE COVER FOR REINFORCEMENT, UNLESS NOTED OTHERWISE, SHALL BE AS FOLLOWS:
 - A. SLAB AND SIDEWALK.....2.0"

NO.	DATE	BY
REVISIONS		

PROJECT TITLE

BROOK STREET BRIDGE REHABILITATION

ANYTOWN

RHODE ISLAND

TITLE BLOCK

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STAMP

TOWN OF ANYTOWN
DEPARTMENT OF PUBLIC SERVICES
642 NORTH STREET
ANYTOWN, RI 012234

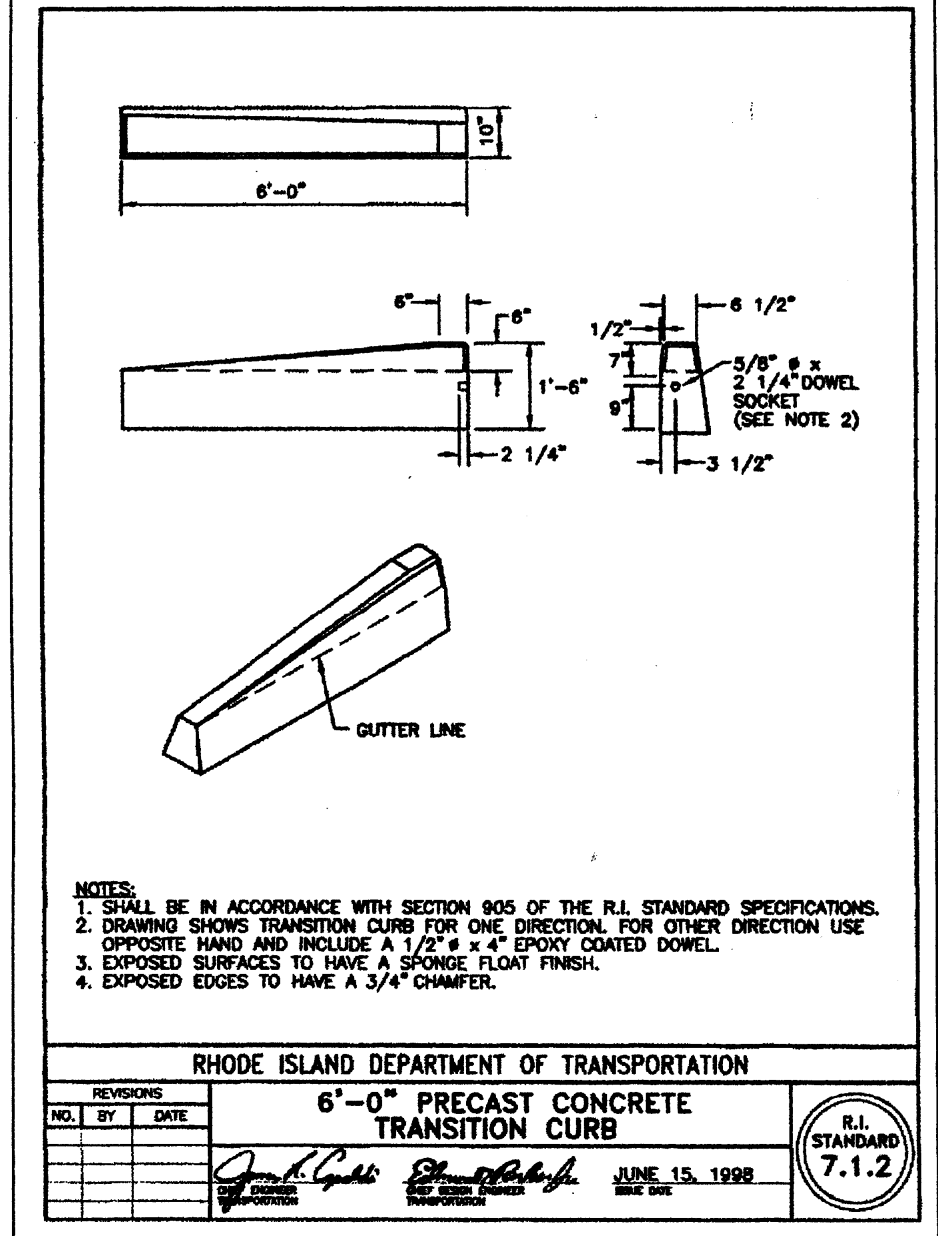
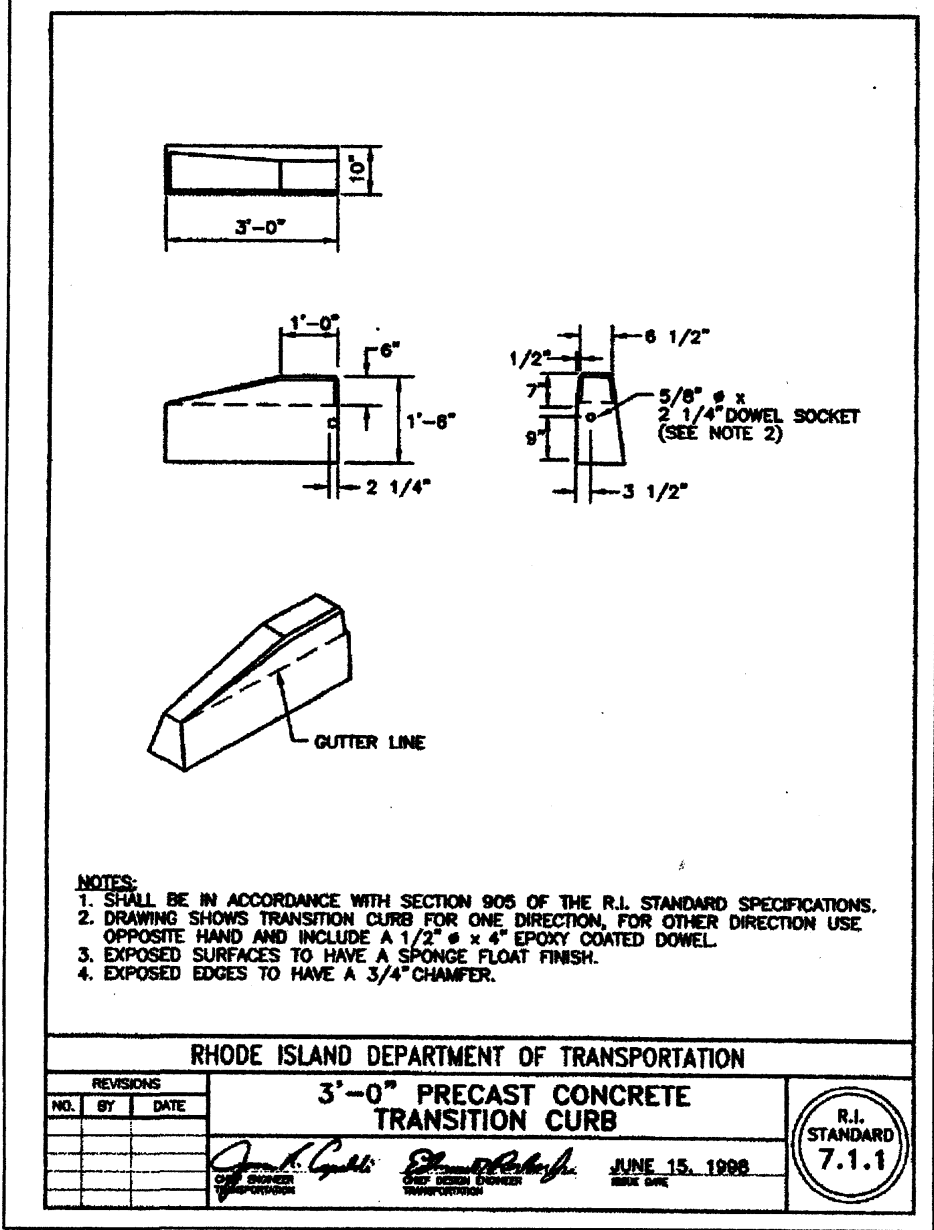
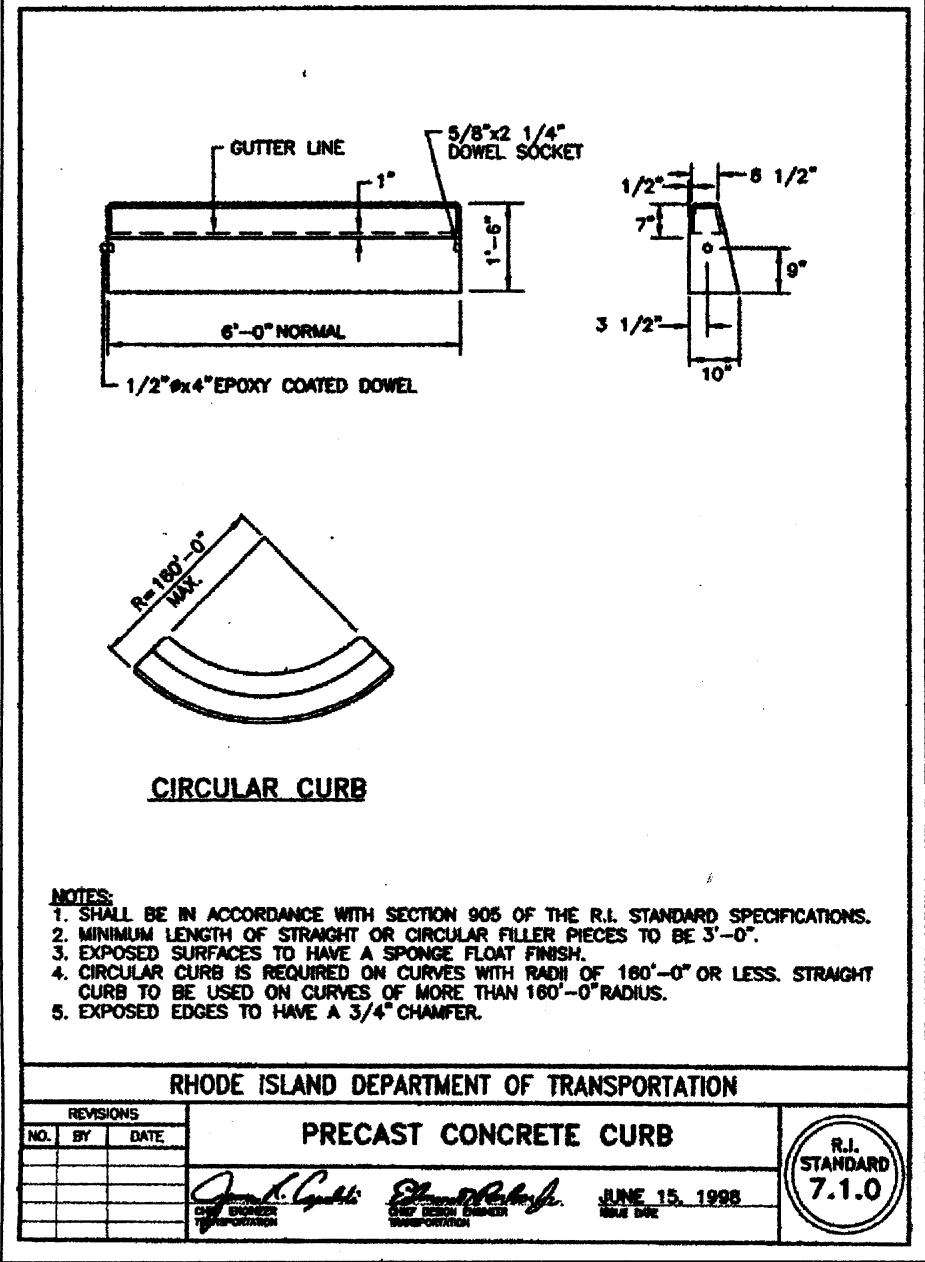
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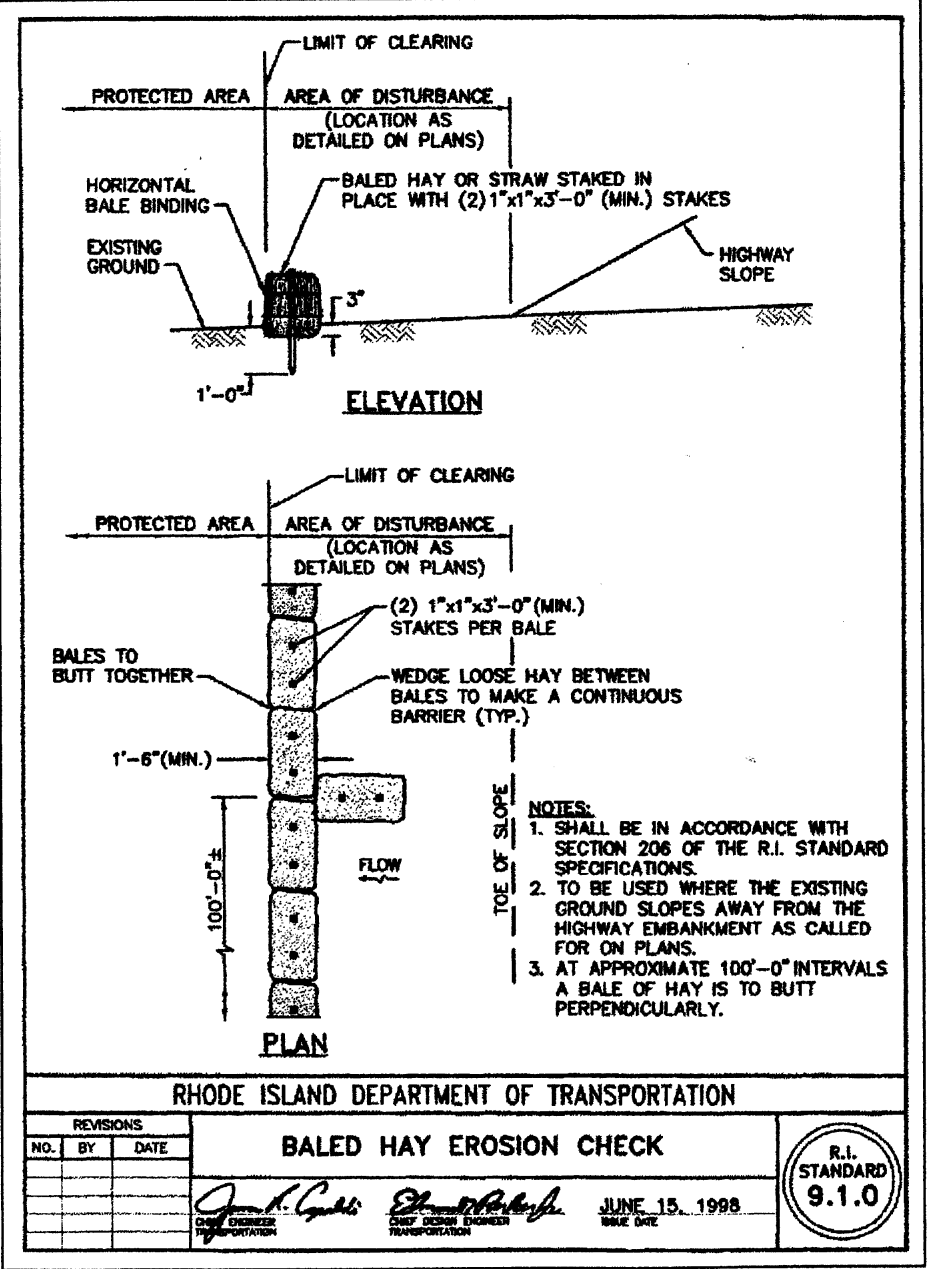
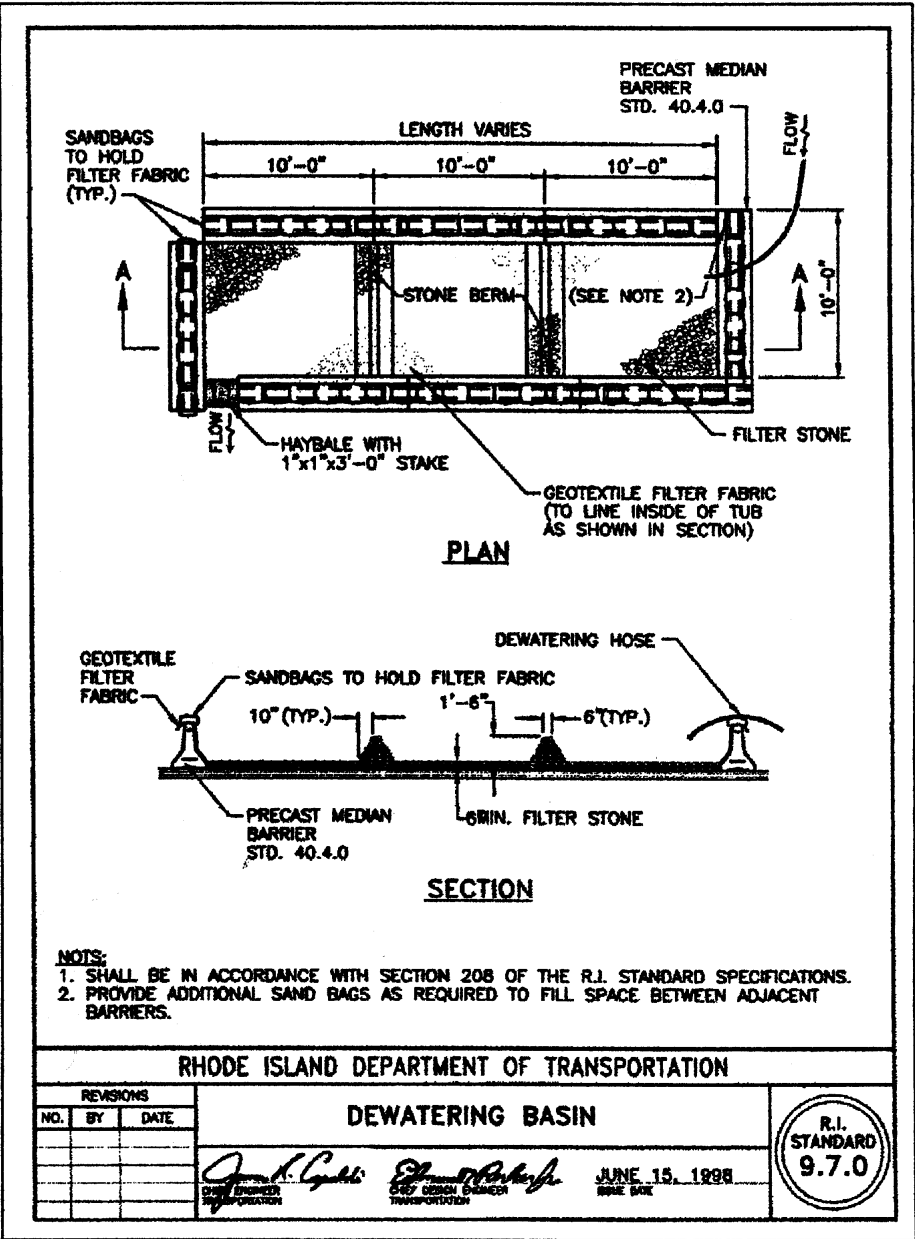
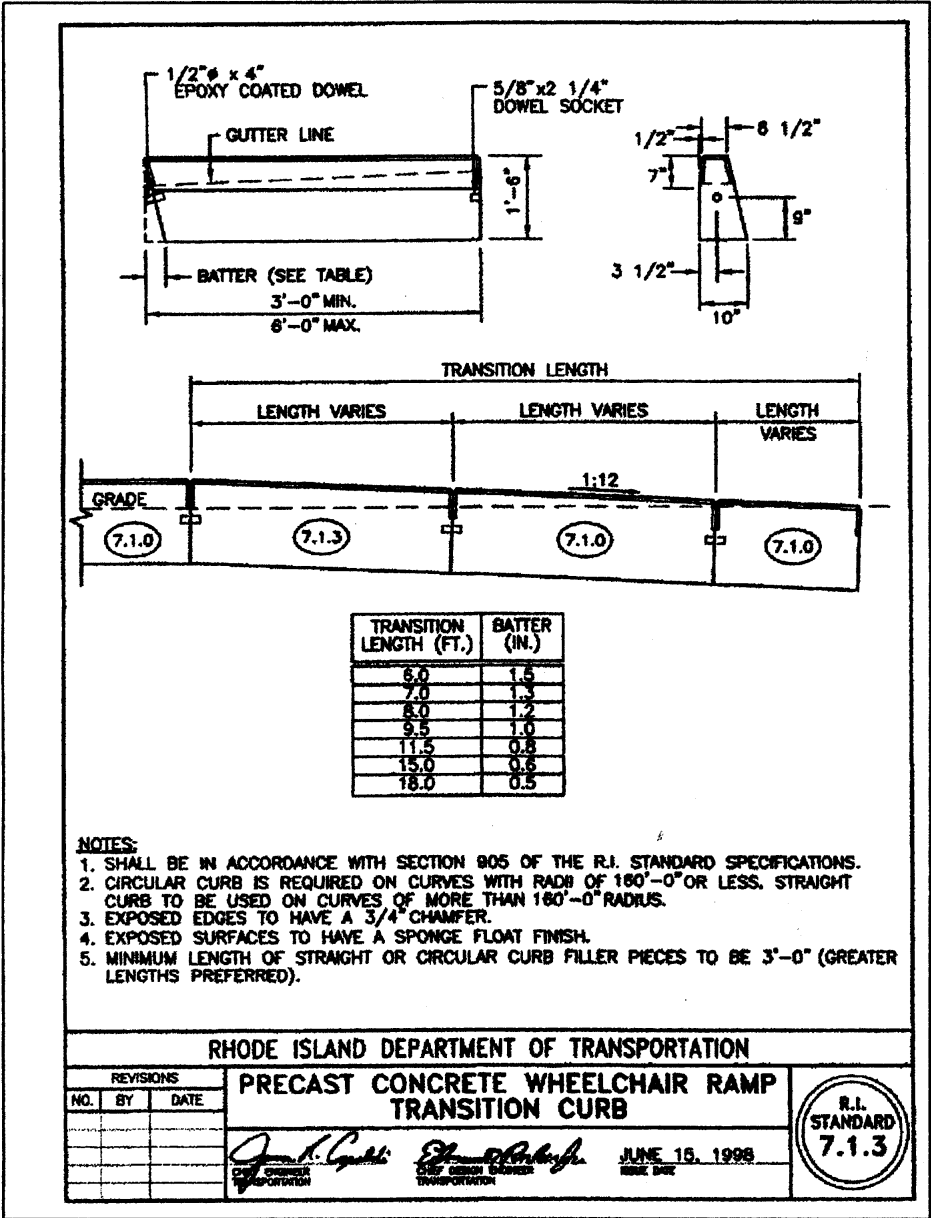
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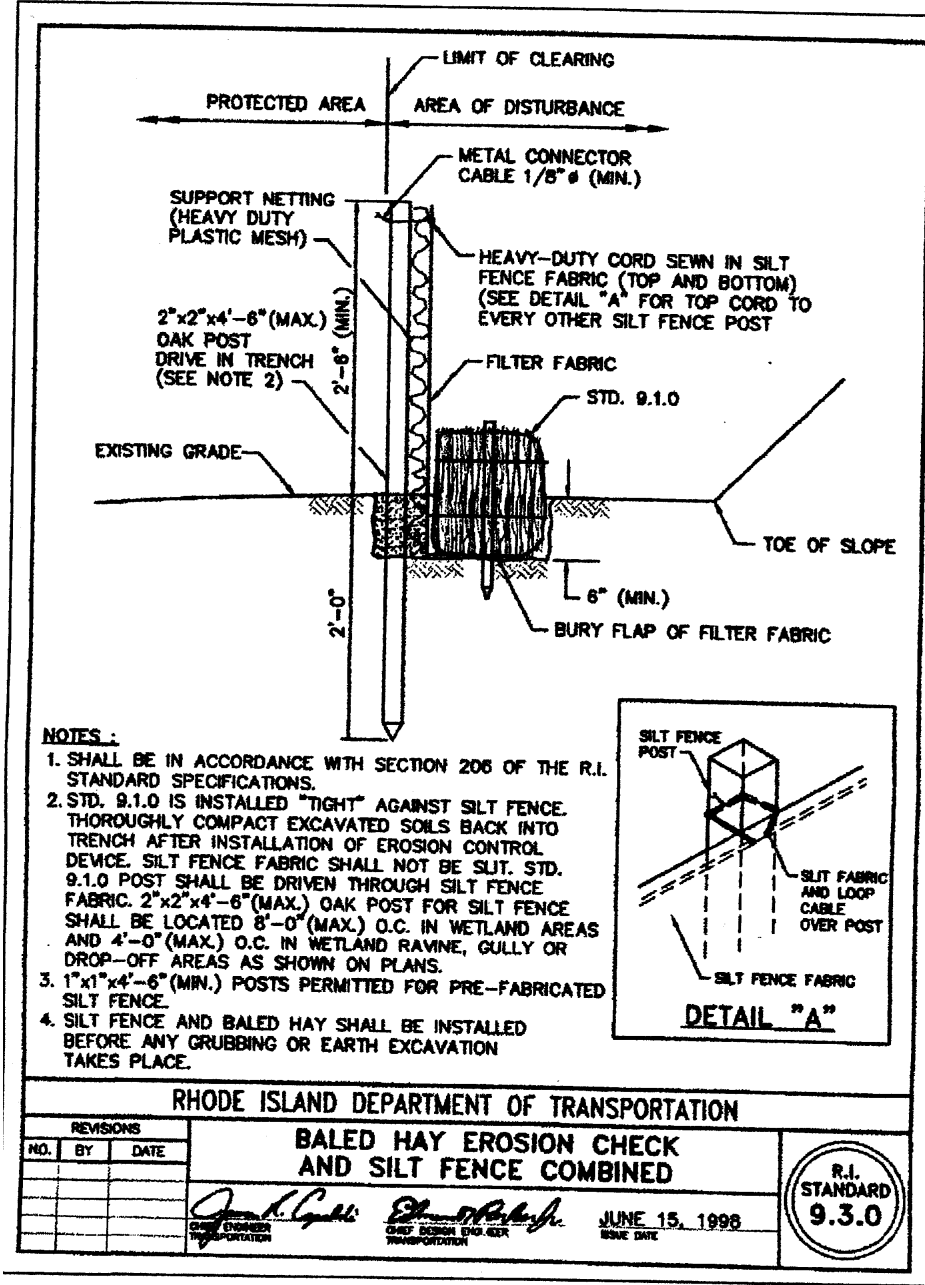
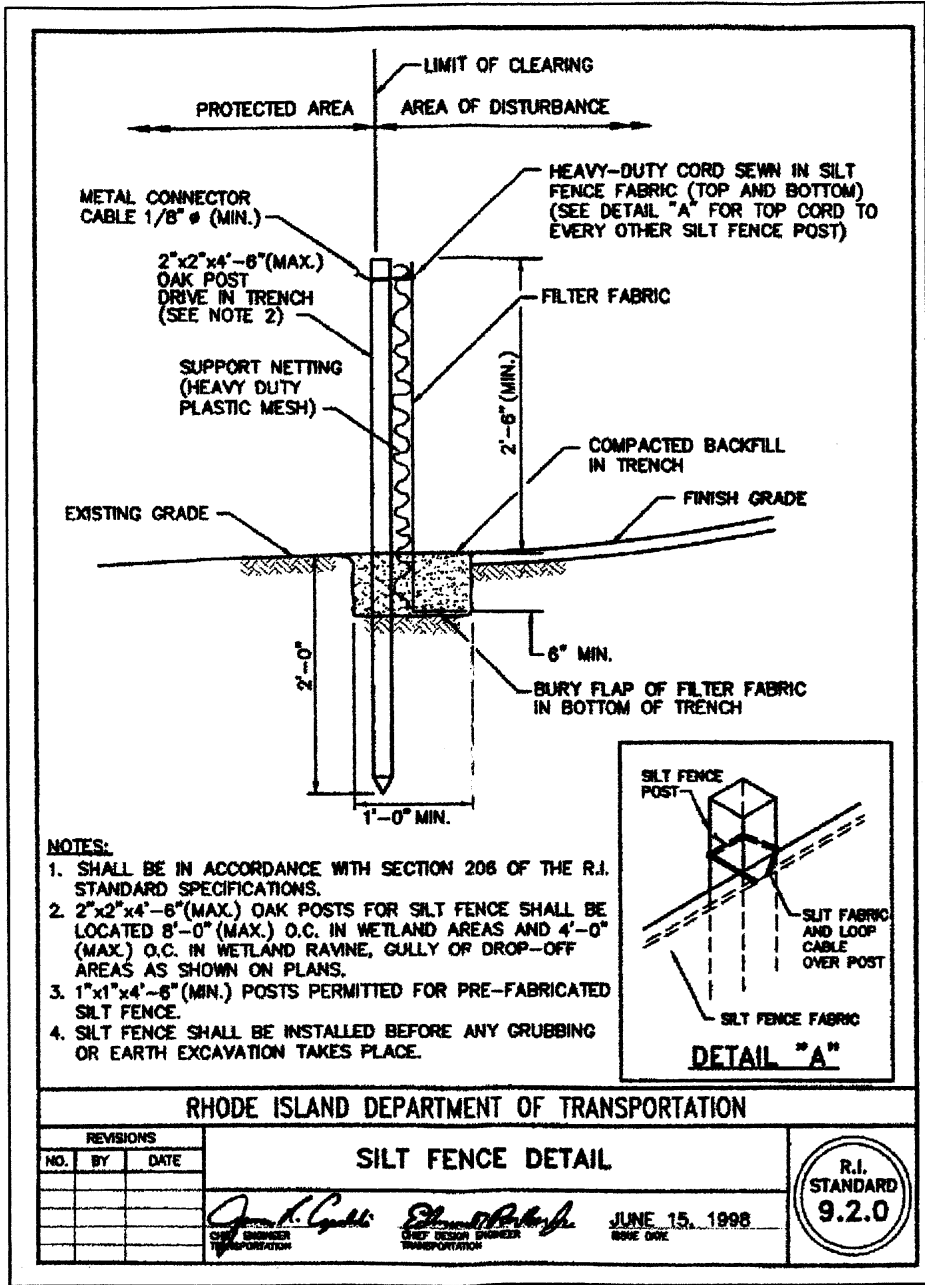
PROJECT NO. _____
DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
DATE _____
SCALE AS SHOWN

6

SHEET **6** OF **11**







PROJECT TITLE
**BROOK STREET
BRIDGE REHABILITATION**
ANYTOWN RHODE ISLAND

TITLE BLOCK

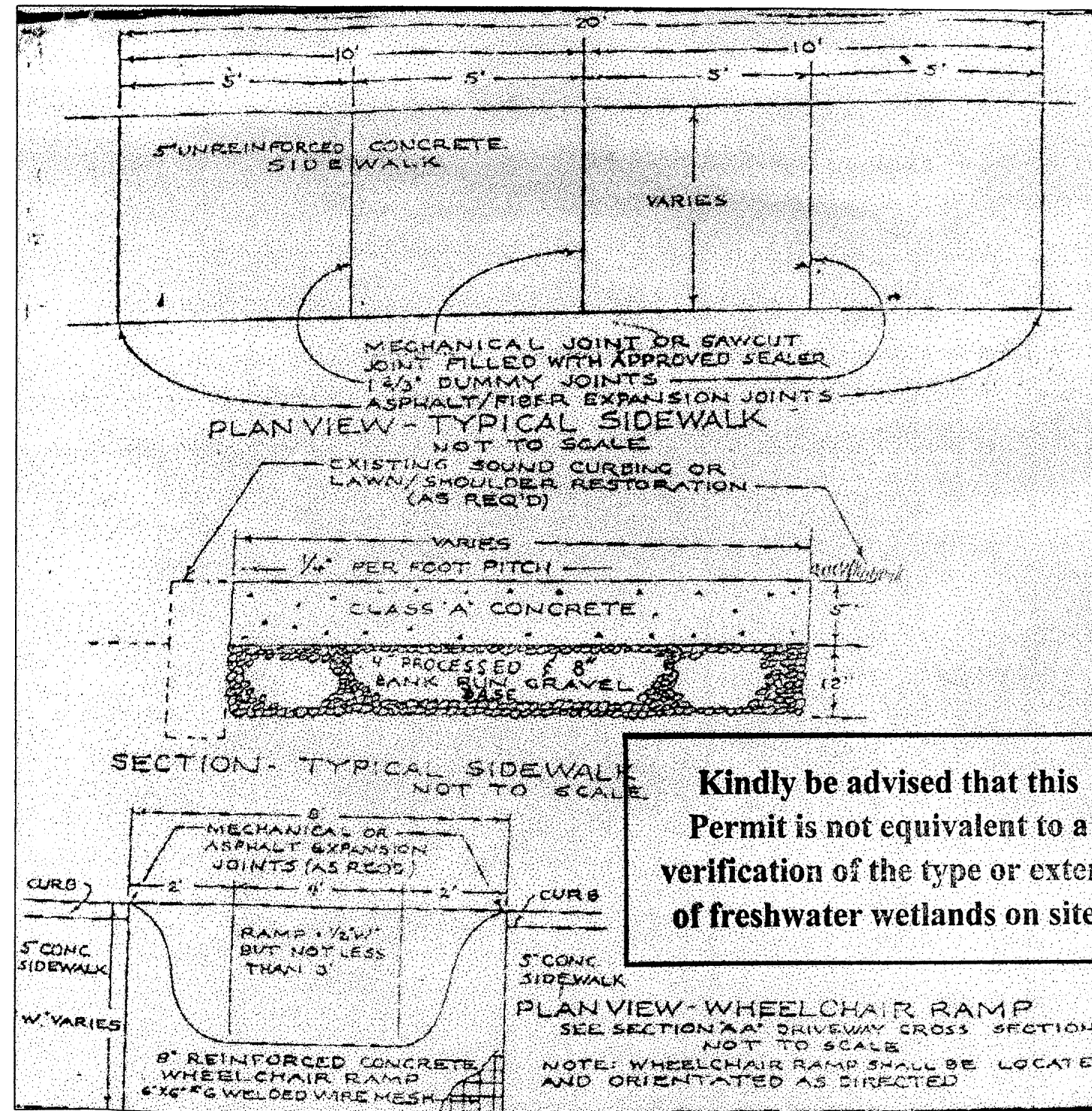
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PREPARED FOR:
TOWN OF ANYTOWN
DEPARTMENT OF PUBLIC SERVICES
642 NORTH STREET
ANYTOWN, RI 01234

SHEET DESCRIPTION
GENERAL PLAN

PROJECT NO. _____
DESIGNED BY _____
DRAWN BY _____
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DATE _____
SCALE 1"=20'

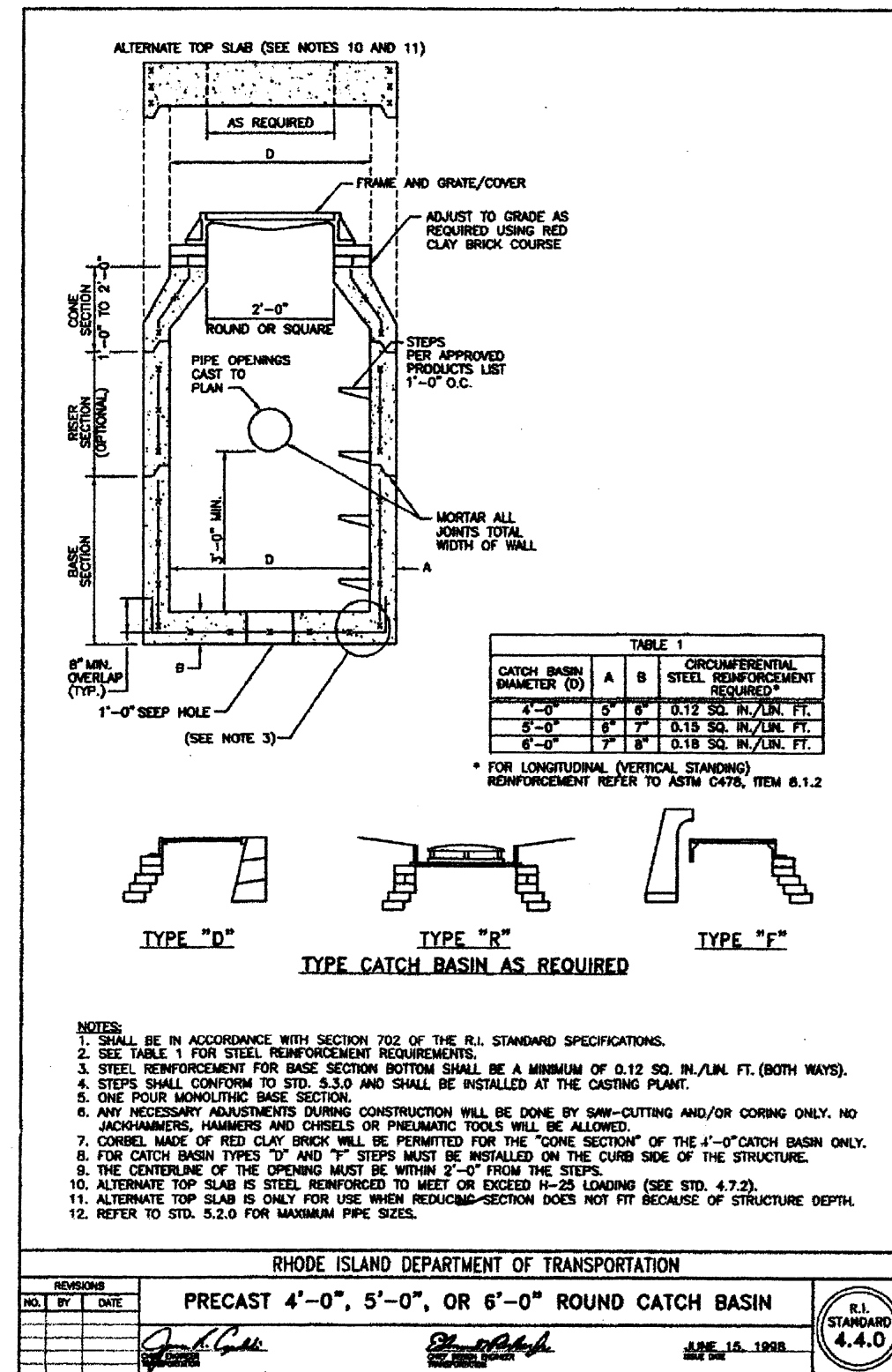
NO.	DATE	BY
REVISIONS		
9		
SHEET 9 OF 41		



Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

WHEEL CHAIR RAMP DETAIL

NOT TO SCALE



**BROOK STREET
BRIDGE REHABILITATION**

ANYTOWN

RHODE ISLAND

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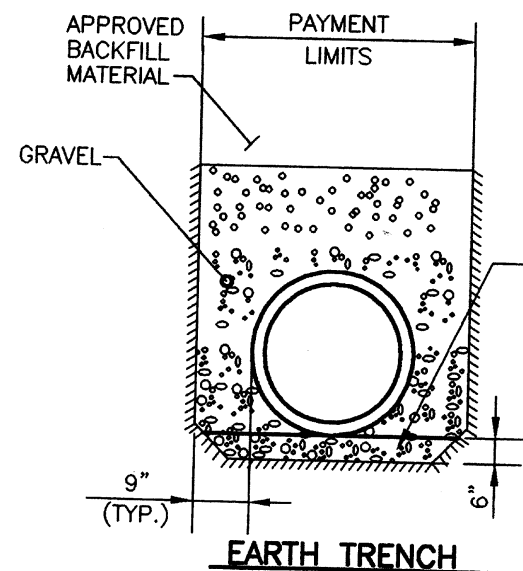
TOWN OF ANYTOWN
DEPARTMENT OF PUBLIC SERVICES
642 NORTH STREET
ANYTOWN, RI 01234

GENERAL PLAN

PROJECT NO. _____
DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
DATE _____
SCALE 1"=20'

NO.	DATE	BY
10		

SHEET 10 OF 11



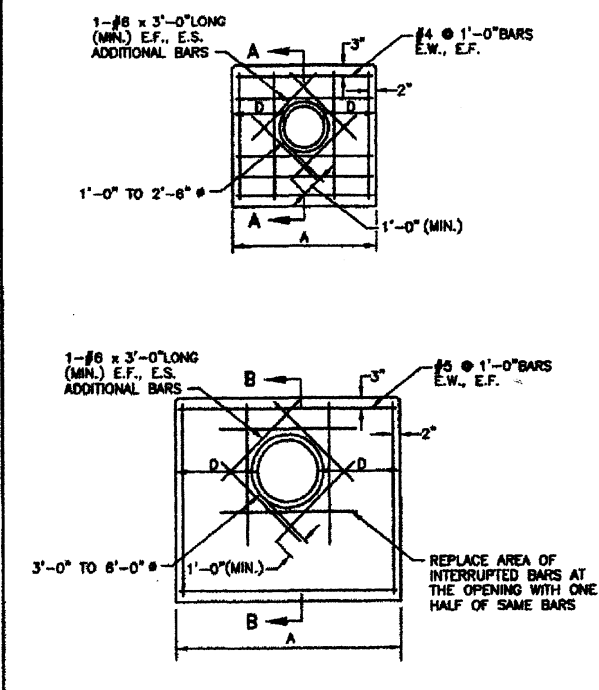
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
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6" OF 3/4" STONE
Engineer D. Wenes

PIPE (I.D.)	TRENCH WIDTH
4" - 12"	3' - 0"
15" - 24"	DIA. + 2'-0"
27" - 36"	DIA. + 2'-6"
OVER 36"	DIA. + 3'-0"

TYPICAL PIPE BEDDING & TRENCH DETAILS

NOT TO SCALE



DIAMETER OF PIPE	A	C	D	E	CU. YD. CONCRETE
1'-0"	3'-0"	2'-2"	1'-0"	-	13.2
1'-3"	3'-9"	2'-5"	1'-3"	-	17.2
1'-6"	4'-6"	2'-8"	1'-6"	-	21.5
1'-9"	5'-3"	2'-11"	1'-9"	-	26.0
2'-0"	6'-0"	3'-2"	2'-0"	-	30.9
2'-3"	6'-9"	3'-6"	2'-3"	-	36.5
2'-6"	7'-6"	3'-9"	2'-6"	-	42.0
3'-0"	9'-6"	4'-0"	3'-0"	1'-5"	84.1
3'-6"	11'-0"	4'-6"	3'-6"	1'-7"	111.8
4'-0"	12'-6"	5'-0"	4'-0"	1'-9"	146.5
4'-6"	14'-4"	5'-6"	4'-6"	1'-11"	186.3
5'-0"	16'-0"	6'-0"	5'-0"	2'-1"	232.8
5'-6"	17'-8"	6'-8"	5'-6"	2'-3"	284.9
6'-0"	19'-4"	7'-0"	6'-0"	2'-5"	343.6

- NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 3/4" CHAMFER ON ALL EXPOSED EDGES.
 3. 1'-0" COMPACTED GRAVEL UNDER HEADWALL.
 4. ALL REINFORCING BARS SHALL BE EPOXY COATED.

R.I. STANDARD 2.1.0
DATE 10.15.1988
Rhode Island Department of Transportation
CONCRETE HEADWALLS FOR PIPE CULVERTS
NO. _____ DATE _____ BY _____
REVISIONS
NO. _____ DATE _____ BY _____